

# P2R8852E2

## 5MP Day & Night Fixed IR Bullet IP Camera



The LILIN P2 series cameras are equipped with a fixed-focus lens, offering flexible surveillance coverage and featuring a 2-megapixel CMOS sensor. This series incorporates 3D digital noise reduction (MCTF) and 2D WDR to ensure clear images under various lighting conditions. High-efficiency infrared LEDs provide superior illumination in low-light environments, with day and night functionality to adapt to different lighting conditions.

The P2 series also includes digital PTZ and ROI (Region of Interest) capabilities, supporting intelligent video surveillance (IVS) features such as tamper detection, motion detection, and network disconnection detection. Customizable smart events can be tailored to meet specific needs. It supports ONVIF Profile S, T, and G, and is designed to withstand harsh outdoor environments with waterproof and vandal-resistant construction.

5MP

ONVIF® S T G

- 5 megapixel CMOS image sensor
- 5MP H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- Smart H.264/H.265 supported
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 120dB
- Digital PTZ supported
- IVS supported
- Tampering / Motion / Network lost detection event function
- SMART event
- High efficiency IR LED, radiant distance up to 35m
- Day & Night (IR cut removable)
- ONVIF Profile S, Profile T and Profile G supported
- IP67 rain and dust resistant
- Vandal resistant approve



| Video Performance                  |                                                                                                                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Min. Illumination                  | Color : 0.01 Lux at F1.6 ;<br>B/W : 0.004 Lux at F1.6 ; 0 Lux with IR LED ON                                                                                                                      |
| Lens / Night Vision (Infrared LED) |                                                                                                                                                                                                   |
| Focal Length                       | 2.8mm                                                                                                                                                                                             |
| Iris                               | F1.6                                                                                                                                                                                              |
| Iris Control                       | Fixed IRIS                                                                                                                                                                                        |
| Angle of View                      | 92.8° (H) , 68.8° (V) , 116.5° (D)                                                                                                                                                                |
| Peak Wavelength                    | 850nm                                                                                                                                                                                             |
| Beam Spread                        | 60° , 90°                                                                                                                                                                                         |
| Radiant Distance                   | 35M                                                                                                                                                                                               |
| Sensor                             |                                                                                                                                                                                                   |
| Pick Up Element                    | 1/2.8" CMOS image sensor                                                                                                                                                                          |
| Effective Pixels                   | 2616 (H) × 1964 (V) = 5,137,824 (Pixels)                                                                                                                                                          |
| Certifications                     |                                                                                                                                                                                                   |
| CE / FCC                           | Yes, EMI CLASS B                                                                                                                                                                                  |
| IP Rating                          | IP67                                                                                                                                                                                              |
| Vandal Resistant Rating            | IK10                                                                                                                                                                                              |
| UL                                 | Yes                                                                                                                                                                                               |
| PC Requirements                    |                                                                                                                                                                                                   |
| CPU                                | Intel® Core™ i7 or higher grade                                                                                                                                                                   |
| OS                                 | Windows 7 or above                                                                                                                                                                                |
| RAM                                | 8GB or above, Dedicated Graphics Card                                                                                                                                                             |
| Web Browser                        | Microsoft® Internet Explorer® 9 or above<br>Microsoft® Edge (IE mode)                                                                                                                             |
| Video Streaming                    |                                                                                                                                                                                                   |
| Video Compression                  | H.265/HEVC main profile, H.264 main and high profile ,<br>Motion JPEG                                                                                                                             |
| Video Streaming                    | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable<br>streams in H.265 and H.264 and Motion JPEG,<br>configurable frame rate and bandwidth                                                      |
| Number of Streams                  | 4                                                                                                                                                                                                 |
| Video Bitrate                      | 128Kbps – 12Mbps; Frame rate and bit rate controllable<br>on-the-fly; VBR / CBR / GOP supported, Fixed bitrate,<br>Smart H.264/H.265                                                              |
| Network Security                   |                                                                                                                                                                                                   |
| Encryption                         | Base64 HTTP encryption, HTTPS encryption, DDNS via<br>HTTPS                                                                                                                                       |
| Authentication                     | Digest HTTP authentication, RTSP authentication, TLS,<br>802.1x, DDNS via HTTPS                                                                                                                   |
| Address Filter                     | IP address filter, MAC address filter                                                                                                                                                             |
| Access                             | Multiple user access levels with password protection                                                                                                                                              |
| User accounts                      | 10 user accounts available                                                                                                                                                                        |
| Multi IP Address                   | Yes                                                                                                                                                                                               |
| Video Resolutions (H x V)          |                                                                                                                                                                                                   |
| Resolution                         | 5MP(2592 × 1944), 4MP(2304 × 1728), 3.1MP(2048 ×<br>1536), 3MP(2304 × 1296), 2MP(1920 × 1080), 1.3MP(1280<br>× 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576),<br>VGA(640 × 480), CIF(352 × 240) |
| Maximum Frame Rate                 | Normal mode: up to 25 fps @ 2592 × 1944<br>HDR mode: up to 25 fps @ 2592 × 1944                                                                                                                   |
| Video Functions                    |                                                                                                                                                                                                   |
| Scanning System                    | Progressive Scan                                                                                                                                                                                  |
| Infrared Cut Filter                | Auto / Day (Color) / Night (Mono) / Schedule                                                                                                                                                      |
| White Balance                      | ATW-NARROW / ATW-WIDE / AWC(MANUAL)                                                                                                                                                               |
| Back Light Compensation            | Yes                                                                                                                                                                                               |
| Electrical Shutter                 | 1/30(1/25)s – 1/30000s                                                                                                                                                                            |
| Sense Up                           | Off / x2 / x4 / x8 / x16                                                                                                                                                                          |
| Sense Up+                          | Yes                                                                                                                                                                                               |
| Auto Gain Control                  | 60 dB Variable Gain                                                                                                                                                                               |
| S/N Ratio                          | More than 50dB (AGC off)                                                                                                                                                                          |
| 3D Noise Reduction                 | Off / 1 – 32 Selectable                                                                                                                                                                           |
| 2D WDR                             | Off / Auto / x2 / x3 / x4 (by normal mode) Support Onvif                                                                                                                                          |
| High Dynamic Range                 | Up to 120dB (by HDR mode, 2 shutter line interleave)                                                                                                                                              |
| Privacy Masking                    | Off / On (4 zones)                                                                                                                                                                                |
| Image Effects                      | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror,<br>Flip, Rotation, Overexposure Reduction                                                                                               |

| EV (Exposure Value)              | Adjustable                                                                                                                                                                                                                                                               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lens distortion correction (LDC) | Yes                                                                                                                                                                                                                                                                      |
| Integration                      |                                                                                                                                                                                                                                                                          |
| Mobile Application               | Integrated to LILIN mobile app (LILIN Pro), iPhone, iPad,<br>Android support                                                                                                                                                                                             |
| Video Management                 | ONVIF Profile S / ONVIF Profile T / ONVIF Profile G / IVS<br>events, LILIN Navigator Enterprise 5.0 support, Third party<br>VMS through LILIN HTTP API                                                                                                                   |
| SD Card Recording                | Support Micro SD/SDHC/SDXC card for circular recording<br>(card is not included)                                                                                                                                                                                         |
| SD Card Compatible List          | Micron - 32GB,64GB,128GB,256GB,512GB, 1TB (SDXC, U1,<br>C10)<br>Transcend - 4GB SD,8GB SDHC,32GB SDHC C10,128GB<br>SDXC C10<br>SanDisk - 8GB SDHC, 32GB, 64GB, 128GB SDHC C10<br>Kingston - 64GB SDXC C10                                                                |
| Maintenance                      | Firmware update via HTTP and IP Scan; Firmware available<br>at website                                                                                                                                                                                                   |
| IVS Basic 1.0                    | Motion Detection, Tampering Detection, Advanced Motion<br>Detection, Traffic Light Detection, Tripwire Detection,<br>Object Counting                                                                                                                                     |
| IVS Advanced 2.1 (Optional)      | Unattended Object Detection, Missing Object Detection,<br>Crowd Detection, Loitering Detection, Face Detection                                                                                                                                                           |
| IVS Advanced 2.2 (Optional)      | Detection Zone for Car and Human                                                                                                                                                                                                                                         |
| Event Triggers                   | Motion / Tamper / Network lost detection / SmartEvent                                                                                                                                                                                                                    |
| Event actions                    | FTP / SMTP / HTTP post / SD card / SAMBA / SNMP Trap<br>/ Push Service notification                                                                                                                                                                                      |
| Languages                        | English, Traditional Chinese, Simplified Chinese, Spanish,<br>Italian, Turkish, Russian, Korean, French, Arabic, Hungarian,<br>Japanese                                                                                                                                  |
| Network                          |                                                                                                                                                                                                                                                                          |
| Ethernet                         | 10/100 Mbps Base-T (Tx), RJ-45                                                                                                                                                                                                                                           |
| ePTZ & Digital Zoom              | Yes, ROI (Region of Interest)                                                                                                                                                                                                                                            |
| OSD                              | Position configurable text overlay for date, time, camera<br>ID, event status and watermark with customizable user<br>demand data                                                                                                                                        |
| CPU, Memory                      | Embedded SoC ARM Cortex-A9, 816MHz, 512MB DDR3L,<br>256MB flash memory                                                                                                                                                                                                   |
| OS                               | Embedded Linux 3.10                                                                                                                                                                                                                                                      |
| Network Protocols                | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, MQTT, QoS,<br>SNMP V1/V2/V3, SNMP Trap and heart beat, NTP, DDNS,<br>UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet,<br>ICMP, IGMP, ONVIF Profile S, ONVIF Profile T, ONVIF<br>Profile G, SDDP, Bonjour , 802.1x, SSL/TLS |
| Max number of online users       | 10 simultaneous users                                                                                                                                                                                                                                                    |
| Video Display                    | LILIN Universal ActiveX , LILIN Java Applet                                                                                                                                                                                                                              |
| Watermark                        | BMP logo                                                                                                                                                                                                                                                                 |
| Log                              | Event & operation log & IVS event log                                                                                                                                                                                                                                    |
| Schedule                         | Support holiday list                                                                                                                                                                                                                                                     |
| Network Storage                  | NAS (Support SAMBA/CIFS)                                                                                                                                                                                                                                                 |
| Power and Environment            |                                                                                                                                                                                                                                                                          |
| Starting Temperature             | -10° C – +50° C (14° F – 122° F)                                                                                                                                                                                                                                         |
| Operating Temperature            | -40° C – +50° C (-40° F – 122° F)                                                                                                                                                                                                                                        |
| Storage Temperature              | -25° C – +60° C (-13° F – 140° F)                                                                                                                                                                                                                                        |
| Humidity                         | 0% – 90% RH                                                                                                                                                                                                                                                              |
| Power Supply                     | DC12V ±10% / PoE (IEEE 802.3af compliant)                                                                                                                                                                                                                                |
| Power Consumption                | DC12V, 7.9W / PoE, 10.2W                                                                                                                                                                                                                                                 |
| Mechanical                       |                                                                                                                                                                                                                                                                          |
| Dimension                        | 75(W) × 75(H) × 189(D) mm                                                                                                                                                                                                                                                |
| Weight                           | 555g                                                                                                                                                                                                                                                                     |
| Casing Material                  | Aluminum alloy                                                                                                                                                                                                                                                           |
| Window                           | Ø58 Heat Resistant Glass                                                                                                                                                                                                                                                 |
| Warranty                         |                                                                                                                                                                                                                                                                          |
| Warranty                         | 3 Year(s)                                                                                                                                                                                                                                                                |

Bracket



**BCR05W**  
Wall-mount

Bracket



**BTD02W**  
Wall-mount